



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 9LP3 / pdb_00009lp3
Title : Crystal structure of Aromatic Dioxygenase CpuAdo(Coniochaeta pulveracea)
Authors : Wu, B.; Yu, L.; Wang, Y.H.
Deposited on : 2025-01-23
Resolution : 2.20 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.47

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X-RAY DIFFRACTION

A.

the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R _{free}	164625	5791 (2.20-2.20)
Clashscore	180529	6634 (2.20-2.20)
Ramachandran outliers	177936	6560 (2.20-2.20)
Sidechain outliers	177891	6561 (2.20-2.20)
RSRZ outliers	164620	5791 (2.20-2.20)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	585	78% 14% 7%
1	B	585	77% 14% 7%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	CL	B	602	-	-	X	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 9494 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Lignostilbene dioxygenase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	542	Total	C	N	O	S	0	0	0
			4351	2785	763	785	18			
1	B	544	Total	C	N	O	S	0	0	0
			4366	2797	764	787	18			

- Molecule 2 is FE (III) ION (CCD ID: FE) (formula: Fe) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Fe	0	0
			1	1		
2	B	1	Total	Fe	0	0
			1	1		

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Cl	0	0
			1	1		
3	B	1	Total	Cl	0	0
			1	1		

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	431	Total	O	0	0
			431	431		
4	B	342	Total	O	0	0
			342	342		

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	66.90Å 90.05Å 194.06Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	45.03 – 2.20 45.03 – 2.20	Depositor EDS
% Data completeness (in resolution range)	98.7 (45.03-2.20) 98.7 (45.03-2.20)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.78 (at 2.20Å)	Xtriage
Refinement program	PHENIX 1.19.2_4158	Depositor
R, R_{free}	0.194 , 0.240 0.195 , 0.239	Depositor DCC
R_{free} test set	2933 reflections (4.86%)	wwPDB-VP
Wilson B-factor (Å ²)	26.3	Xtriage
Anisotropy	0.515	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 48.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9494	wwPDB-VP
Average B, all atoms (Å ²)	34.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.23% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: CL, FE

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.34	0/4492	0.56	0/6111
1	B	0.32	0/4508	0.50	0/6134
All	All	0.33	0/9000	0.53	0/12245

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4351	0	4137	62	0
1	B	4366	0	4150	64	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	1	0
3	B	1	0	0	2	0
4	A	431	0	0	22	1
4	B	342	0	0	16	1
All	All	9494	0	8287	128	2

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

All (128) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:602:CL:CL	4:A:1039:HOH:O	2.14	1.01
3:B:602:CL:CL	4:B:1001:HOH:O	2.21	0.96
3:B:602:CL:CL	4:B:727:HOH:O	2.22	0.93
1:A:314:ALA:HB2	1:A:387:SER:HB3	1.57	0.86
1:A:463:LYS:NZ	4:A:704:HOH:O	2.11	0.82
1:B:440:ALA:O	4:B:701:HOH:O	1.98	0.81
1:A:247:MET:HE2	1:A:249:HIS:HB2	1.63	0.80
1:A:48:GLU:OE1	4:A:701:HOH:O	2.03	0.75
1:A:463:LYS:HG2	1:A:470:GLY:HA2	1.68	0.75
1:B:340:PRO:HG3	1:B:346:GLN:HA	1.68	0.75
1:B:56:HIS:NE2	4:B:707:HOH:O	2.22	0.72
1:A:100:ASP:HA	4:A:871:HOH:O	1.88	0.72
1:B:469:GLU:OE1	4:B:702:HOH:O	2.07	0.71
1:A:230:LYS:O	4:A:702:HOH:O	2.08	0.71
1:A:436:ASP:OD1	4:A:703:HOH:O	2.09	0.70
1:A:449:ALA:HB1	1:A:453:CYS:HB2	1.73	0.70
1:B:44:PRO:HB3	1:B:46:ARG:HD2	1.73	0.70
1:B:300:VAL:O	4:B:703:HOH:O	2.11	0.69
1:B:151:VAL:HG13	1:B:158:LEU:HD11	1.76	0.68
1:B:161:THR:HG22	1:B:167:PRO:HB3	1.76	0.66
1:B:349:PHE:HE2	1:B:420:PRO:HG2	1.60	0.66
1:A:122:ARG:O	4:A:706:HOH:O	2.14	0.65
1:A:299:GLU:OE1	4:A:707:HOH:O	2.15	0.64
1:A:553:GLU:OE2	4:A:705:HOH:O	2.13	0.64
1:B:238:ARG:NH2	1:B:298:GLY:O	2.19	0.63
1:B:526:THR:OG1	4:B:704:HOH:O	2.16	0.61
1:B:18:ILE:HG13	1:B:26:ARG:HB2	1.83	0.60
1:A:490:ASP:OD1	4:A:709:HOH:O	2.16	0.60
1:A:60:ILE:HD13	1:A:103:VAL:HG23	1.84	0.59
1:A:271:ARG:HG3	1:A:274:ARG:HH21	1.66	0.59
1:B:157:MET:HE3	1:B:159:LEU:HD21	1.83	0.59
1:A:245:ALA:HB1	1:A:267:MET:HE3	1.86	0.58
1:B:321:GLN:O	4:B:705:HOH:O	2.17	0.58
1:A:556:LYS:NZ	4:A:729:HOH:O	2.37	0.58
1:B:61:PRO:HB2	1:B:64:ILE:HG13	1.85	0.58
1:B:70:ARG:HG2	1:B:94:THR:HB	1.85	0.57
1:B:201:ARG:NH2	1:B:395:THR:O	2.37	0.57
1:B:136:ASN:ND2	4:B:713:HOH:O	2.29	0.57
1:A:120:LYS:N	1:A:120:LYS:HD2	2.20	0.57
1:A:238:ARG:NH2	1:A:298:GLY:O	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:MET:HE1	1:B:181:TYR:CE1	2.41	0.56
1:A:493:ASN:CG	1:A:496:LYS:HG3	2.31	0.55
1:B:157:MET:HE1	1:B:181:TYR:CD1	2.42	0.54
1:B:417:CYS:HB3	1:B:479:LEU:HB3	1.89	0.54
1:A:314:ALA:HB2	1:A:387:SER:CB	2.34	0.54
1:B:136:ASN:CB	4:B:713:HOH:O	2.55	0.53
1:B:157:MET:CE	1:B:159:LEU:HD21	2.38	0.53
1:B:233:LYS:NZ	4:B:717:HOH:O	2.37	0.53
1:A:48:GLU:HG2	1:A:108:ARG:HA	1.91	0.52
1:A:128:ARG:NE	4:A:737:HOH:O	2.41	0.52
1:A:549:LYS:NZ	4:A:718:HOH:O	2.28	0.52
1:A:357:SER:OG	1:A:384:GLY:O	2.26	0.52
1:B:397:LYS:NZ	4:B:726:HOH:O	2.43	0.51
1:B:136:ASN:HB2	4:B:713:HOH:O	2.10	0.51
1:A:83:ASP:OD2	1:A:128:ARG:NH1	2.42	0.51
1:B:332:ASP:HA	4:B:925:HOH:O	2.11	0.51
1:A:201:ARG:NH1	4:A:717:HOH:O	2.27	0.51
1:B:152:PHE:CZ	1:B:196:PRO:HG3	2.46	0.50
1:A:431:TYR:HE1	1:A:444:GLU:HG2	1.77	0.50
1:A:161:THR:HG22	1:A:167:PRO:HB3	1.94	0.50
1:A:133:TRP:CE2	1:A:273:LYS:HD3	2.48	0.49
1:B:157:MET:HE1	1:B:181:TYR:CZ	2.48	0.49
1:B:399:LYS:HG2	1:B:432:THR:HG23	1.94	0.49
1:A:431:TYR:CE1	1:A:444:GLU:HG2	2.48	0.49
1:A:267:MET:HG2	1:A:279:PHE:CE1	2.48	0.48
1:A:496:LYS:NZ	4:A:712:HOH:O	2.22	0.48
1:B:269:LEU:HD22	1:B:273:LYS:HD2	1.96	0.48
1:B:438:GLU:HB3	1:B:439:LEU:HD22	1.95	0.47
1:B:120:LYS:NZ	4:B:723:HOH:O	2.40	0.47
1:A:432:THR:HG23	4:A:733:HOH:O	2.13	0.47
1:B:83:ASP:CG	1:B:128:ARG:HH12	2.21	0.47
1:B:114:ARG:HG3	1:B:126:PHE:CD1	2.50	0.47
1:A:357:SER:OG	1:A:357:SER:O	2.31	0.47
1:A:432:THR:O	1:A:442:GLY:HA3	2.14	0.46
1:A:293:PRO:HG3	4:A:860:HOH:O	2.14	0.46
1:A:461:ILE:HB	1:A:471:TRP:HB2	1.97	0.46
1:B:358:PRO:HB3	1:B:381:PRO:HA	1.96	0.46
1:A:463:LYS:CG	1:A:470:GLY:HA2	2.42	0.46
1:B:449:ALA:HB2	1:B:455:PHE:CE2	2.51	0.46
1:B:480:ASP:OD1	1:B:480:ASP:N	2.43	0.46
1:B:288:VAL:HA	1:B:303:PHE:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:159:LEU:HD23	1:B:159:LEU:HA	1.75	0.45
1:A:265:ILE:HG22	1:A:279:PHE:CD1	2.51	0.45
1:B:74:ASP:HA	1:B:509:LYS:HD2	1.97	0.45
1:B:493:ASN:C	1:B:493:ASN:HD22	2.24	0.45
1:A:201:ARG:HG3	4:A:970:HOH:O	2.16	0.45
1:A:447:TYR:CZ	1:A:498:PRO:HD3	2.52	0.45
1:B:60:ILE:HB	1:B:101:GLY:HA2	1.99	0.45
1:A:413:ASP:OD2	1:A:416:LYS:HD3	2.17	0.45
1:B:519:TRP:NE1	4:B:709:HOH:O	2.23	0.44
1:B:405:LYS:HB3	1:B:427:CYS:HB2	1.99	0.44
1:A:358:PRO:HB3	1:A:381:PRO:HA	1.98	0.44
1:A:403:LEU:HD22	1:A:431:TYR:HE2	1.82	0.44
1:B:543:GLU:OE1	1:B:549:LYS:NZ	2.40	0.44
1:A:351:LYS:HB3	1:A:351:LYS:HE2	1.88	0.44
1:A:47:PHE:HA	1:B:51:ILE:HG12	2.00	0.44
1:A:18:ILE:HG13	1:A:31:GLN:OE1	2.17	0.43
1:B:157:MET:HE1	1:B:181:TYR:CG	2.53	0.43
1:A:345:GLU:HB2	4:A:779:HOH:O	2.18	0.43
1:B:380:TRP:HD1	1:B:381:PRO:HD2	1.83	0.43
1:A:388:ARG:HD3	4:A:823:HOH:O	2.18	0.43
1:B:163:GLU:HA	1:B:192:PHE:O	2.19	0.43
1:A:151:VAL:HG22	1:A:158:LEU:HG	2.00	0.43
1:B:154:TRP:O	1:B:157:MET:HG2	2.18	0.43
1:A:265:ILE:HG13	1:A:309:PHE:HE2	1.83	0.42
1:A:481:VAL:HG23	1:A:483:ARG:HG2	2.01	0.42
1:B:41:MET:HA	1:B:507:LYS:HD2	2.01	0.42
1:A:401:PHE:CZ	1:A:431:TYR:HB2	2.54	0.42
1:A:480:ASP:N	1:A:480:ASP:OD1	2.52	0.42
1:B:321:GLN:N	1:B:321:GLN:OE1	2.52	0.42
1:B:68:PHE:HB3	1:B:96:ILE:HB	2.02	0.41
1:A:454:THR:HG23	1:A:479:LEU:HD11	2.02	0.41
1:B:458:PRO:HB2	1:B:472:LEU:HD11	2.02	0.41
1:A:76:ARG:HG2	1:A:109:TYR:CZ	2.55	0.41
1:A:556:LYS:NZ	4:A:753:HOH:O	2.53	0.41
1:B:46:ARG:HA	1:B:109:TYR:OH	2.21	0.41
1:A:155:ARG:NH1	4:A:702:HOH:O	2.20	0.41
1:B:331:ALA:HA	1:B:356:SER:O	2.20	0.41
1:B:496:LYS:HA	1:B:496:LYS:HD2	1.70	0.41
1:B:243:PRO:HD3	1:B:302:TRP:CD2	2.55	0.41
1:A:331:ALA:HA	1:A:356:SER:O	2.20	0.41
1:A:463:LYS:HG3	1:A:463:LYS:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:70:ARG:CG	1:B:94:THR:HB	2.50	0.41
1:B:349:PHE:HA	1:B:353:ASN:OD1	2.21	0.41
1:B:353:ASN:HA	1:B:355:LEU:HD13	2.02	0.40
1:A:197:LYS:HB2	1:A:253:LEU:HD22	2.03	0.40
1:B:152:PHE:HE2	1:B:161:THR:HG21	1.86	0.40
1:B:544:MET:HB3	1:B:548:GLN:HB2	2.03	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:853:HOH:O	4:A:978:HOH:O[4_445]	1.72	0.48
4:B:823:HOH:O	4:B:913:HOH:O[3_445]	2.12	0.08

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	540/585 (92%)	514 (95%)	26 (5%)	0	100	100
1	B	542/585 (93%)	510 (94%)	32 (6%)	0	100	100
All	All	1082/1170 (92%)	1024 (95%)	58 (5%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	454/497 (91%)	445 (98%)	9 (2%)	50	65
1	B	456/497 (92%)	443 (97%)	13 (3%)	37	50
All	All	910/994 (92%)	888 (98%)	22 (2%)	44	57

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	124	SER
1	A	143	ILE
1	A	220	SER
1	A	238	ARG
1	A	348	GLN
1	A	352	ARG
1	A	403	LEU
1	A	466	LYS
1	A	549	LYS
1	B	18	ILE
1	B	120	LYS
1	B	151	VAL
1	B	220	SER
1	B	238	ARG
1	B	265	ILE
1	B	269	LEU
1	B	288	VAL
1	B	353	ASN
1	B	417	CYS
1	B	459	THR
1	B	535	VAL
1	B	553	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	307	ASN
1	B	334	ASN
1	B	348	GLN
1	B	437	ASN
1	B	493	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 4 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	542/585 (92%)	-0.24	6 (1%) 77 75	16, 28, 55, 74	0
1	B	544/585 (92%)	-0.08	10 (1%) 67 64	17, 36, 60, 84	0
All	All	1086/1170 (92%)	-0.16	16 (1%) 71 68	16, 32, 58, 84	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	421	ALA	4.5
1	B	347	GLY	4.5
1	B	350	ALA	4.5
1	B	349	PHE	4.1
1	A	353	ASN	3.4
1	A	349	PHE	3.3
1	A	421	ALA	3.3
1	B	351	LYS	3.1
1	B	352	ARG	2.9
1	B	353	ASN	2.6
1	A	346	GLN	2.5
1	B	345	GLU	2.4
1	A	350	ALA	2.2
1	A	351	LYS	2.2
1	B	415	ALA	2.2
1	B	346	GLN	2.1

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

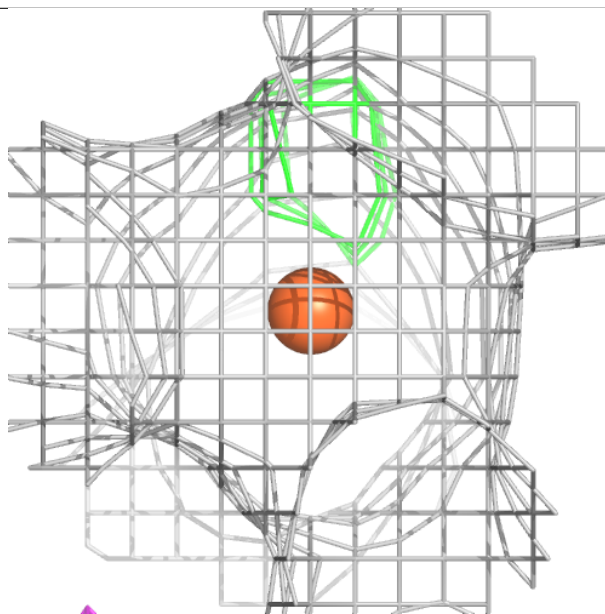
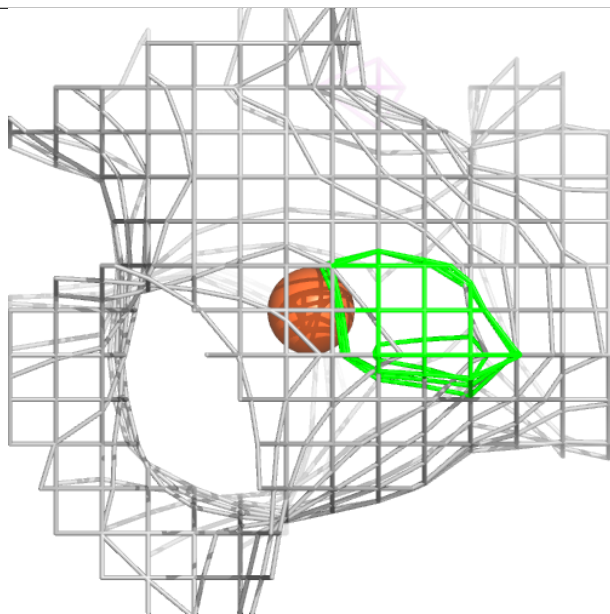
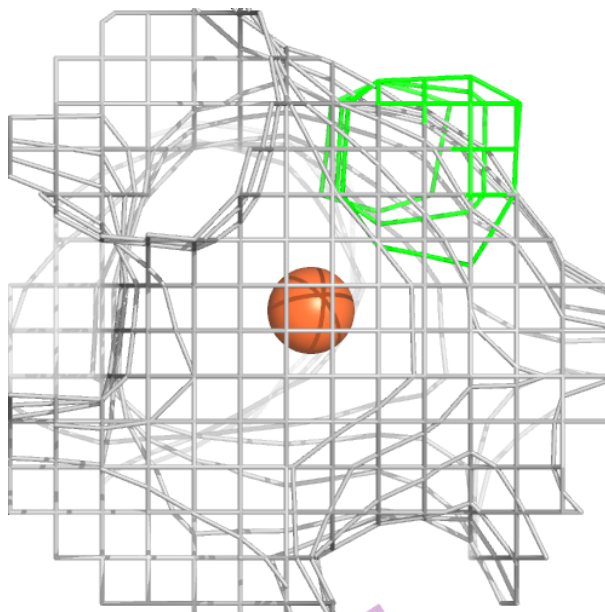
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	CL	B	602	1/1	0.97	0.08	39,39,39,39	0
3	CL	A	602	1/1	0.98	0.12	40,40,40,40	0
2	FE	A	601	1/1	0.99	0.03	18,18,18,18	0
2	FE	B	601	1/1	0.99	0.04	20,20,20,20	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

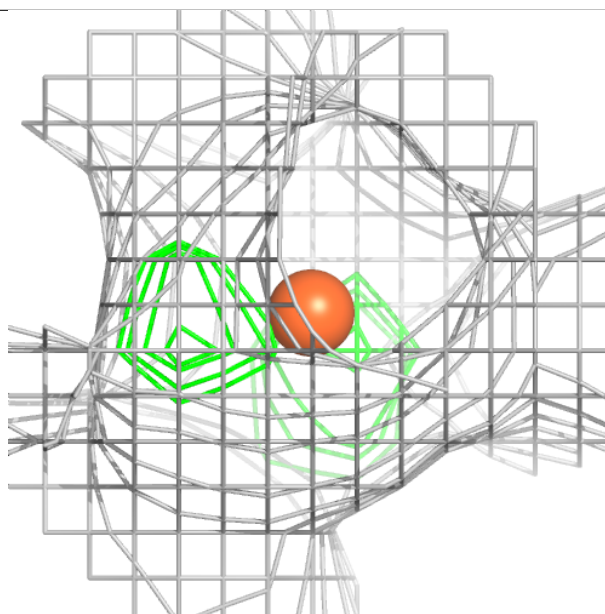
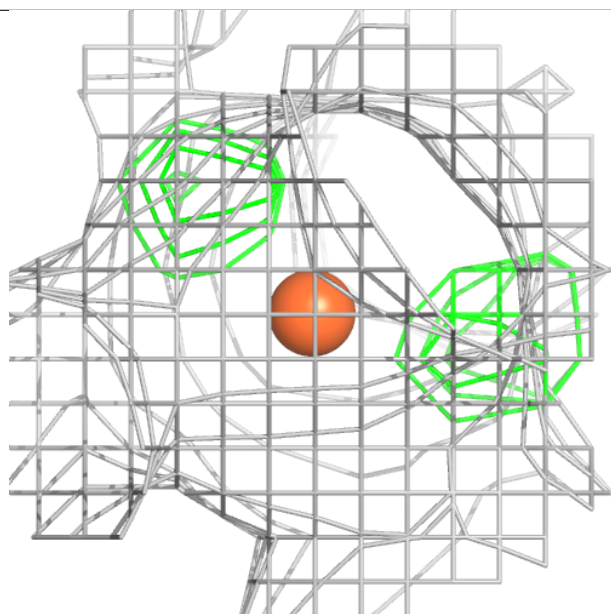
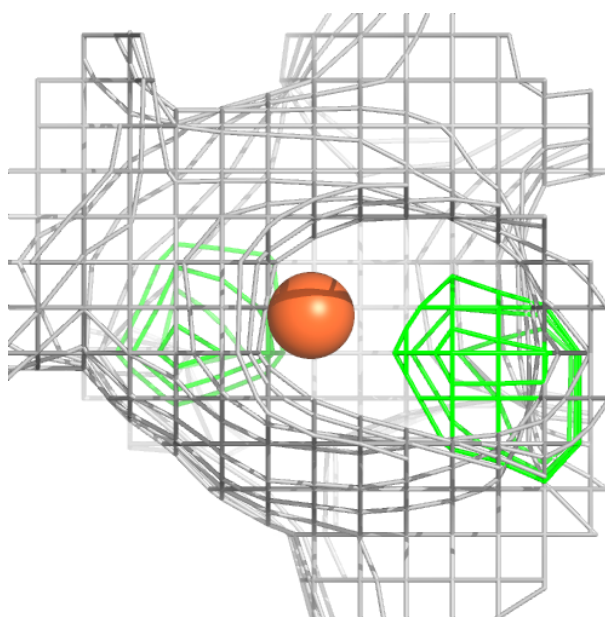
Electron density around FE A 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around FE B 601:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers ⓘ

There are no such residues in this entry.